

# Python Fun(damentals)

## Defining Functions

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Obscurity Labs

```
* functions
```



# What is a Function

1. A function is a block of code which only runs when it is called.
2. You can pass data known as parameters into a function.
3. A function can return data

# Creating Hello World

We create a function by using the `def` keyword. This tells python the following statement is a function.

- Functions are INDENT sensitive. YOU must ensure consistent indents (Tab or Space)
- PEP recommends 4 spaces or 1 tab which a IDE will convert to 4 spaces.

```
def hi(): # notice the def
    print("hi!")

def hi2(): # notice the def
    return "hi!" # this returns a string type
```

# Adding Arguments

When we create a function we can take in values to be processed or used by the function:

```
def hi(string): # notice the def
    print(string)

def hi2(string): # notice the arg
    string = string + " fun"
    return string # this returns the value
```

# Lab\_1.py

## Tasking

Using the new `poetry` command perform the following:

1. Go into the `06_python3_flow_control/` folder and open `lab_1.py`
2. Add a function called ``hello_world()` that takes in a string
3. return the value of the argument as a return value

## Testing your work

**NOTE:** you should see Green `PASS` statements indicating you completed the lab

```
$ poetry shell
$ python lab_1.py
```